

CLAIMS

We Claim:

1. A method for preparing a catalyst composition comprising the steps of contacting an activator, a support, a bulky ligand metallocene catalyst compound, and an ionizing activator in a diluent having a flash point of greater than 200°F.
2. The method of claim 1 wherein the activator and support are combined to form a supported activator.
3. The method of claim 1 wherein the diluent is a mineral oil.
4. The method of claim 1 wherein the activator is an alumoxane.
5. The method of claim 1 wherein the ionizing activator is a Group 13 metal containing compound.
6. The method of claim 2 wherein the supported activator is combined with the bulky ligand metallocene catalyst compound in the diluent prior to contacting with the ionizing activator.
7. The method of claim 2 wherein the supported activator is the reaction product of a support material comprising surface hydroxyl groups and an organoaluminum compound.
8. The method of claim 1 wherein the bulky ligand metallocene catalyst compound is a bridged bulky ligand metallocene catalyst compound.
9. The method of claim 1 further comprising contacting a cycloalkadiene compound with the diluent.
10. A process for polymerizing olefin(s) in the presence of a catalyst composition of an activator, a support, a bulky ligand metallocene catalyst

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compound, an ionizing activator, wherein the catalyst composition is formed in a diluent having a flash point of greater than 200°F.

11. The process of claim 10 wherein the process is a gas phase process.

12. The process of claim 10 wherein the catalyst composition includes a supported activator prepared by combining the support and the activator.

13. The process of claim 10 wherein the catalyst composition is in a slurry state.

14. The process of claim 10 wherein the bulky ligand metallocene catalyst compound is a bridged bulky ligand metallocene catalyst compound.

15. An activated olefin polymerization catalyst composition comprising an activator, a support, a bulky ligand metallocene catalyst compound, an ionizing activator formed in a diluent having a flash point of greater than 200°F.

16. The catalyst composition of claim 15 wherein the activator and the support are combined to form a supported activator.

17. The catalyst composition of claim 15 wherein the catalyst composition is in a slurry state.

18. The catalyst composition of claim 17 wherein the catalyst composition is slurried in mineral oil.

19. The catalyst composition of claim 16 wherein the supported activator is supported alumoxane.

20. The catalyst composition of claim 15, wherein the ionizing activator is .

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21. The catalyst composition of claim 15 wherein the mole ratio of the metal of the ionizing activator to the transition metal of the bulky ligand metallocene catalyst compound is from 0.05 to 5.0.

22. The catalyst composition of claim 15 further comprising a cycloalkadiene.

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